

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-186363

(43)Date of publication of application : 14.08.1991

(51)Int.Cl.

B03C 1/00

B03C 1/18

(21)Application number : 01-325259

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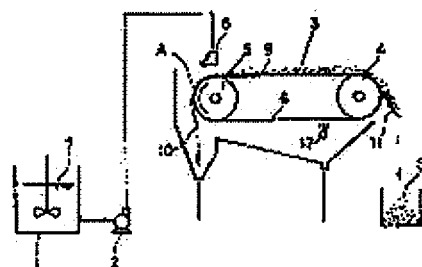
(22)Date of filing : 15.12.1989

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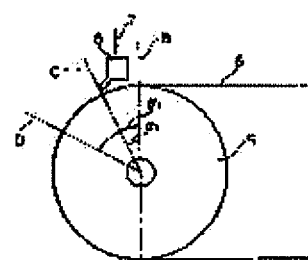
## (54) REMOVAL OF MAGNETIC MATERIAL

### (57)Abstract:

**PURPOSE:** To remove a magnetic material with good separation efficiency by setting the moving speed of a conveyor belt to a specific value and supplying a slurry to the conveyor belt positioned at a specific angle with respect to the vertical line passing through the shaft axis of a tail pulley to magnetically attract the magnetic material to the conveyor belt.



**CONSTITUTION:** A conveyor belt 6 is allowed to run from the underside of a tail pulley 5 to the upper part thereof in the direction shown by an arrow A and, when the slurry 7 containing a magnetic material stored in a slurry tank 1 is supplied to a magnetic selector 3 by a pump 2, the magnetic material is magnetically attracted to the conveyor belt 6 to be separated and a product slurry 10 from which the magnetic material is removed falls as it is. Herein, the moving speed of the conveyor belt 6 at the time of the supply of the slurry 7 is set to 0.05-0.25m/sec and the supply position of the slurry to the conveyor belt 6 is set to 20-70° with respect to the vertical line passing through the shaft axis of the tail pulley 5.



**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]